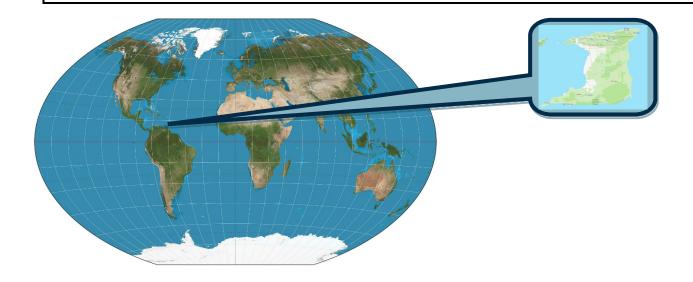
### **COMBINED CYCLE POWER PLANT**

Post Cleaning Summary

## **Trinidad & Tobago**



# **BACKGROUND:**

- 1985 Commissioned
- Natural Gas
- Vertical Gas Flow
- Base Loaded

- No cleaning history
- 2012 June: PIC Deep Cleaning
- 3 Modules Cleaned
- 12 rows largest module

HRSG	GT & Design	Output
• ABB	<ul> <li>GE Frame Gas Turbine</li> </ul>	• 196 MW Total
• Single wide	• 1 X 1	

### **ASSESSMENT:** HRSG fouling causing issues

- Loss of MW output from design
- Reduced thermal efficiency
- Increased back pressure on gas turbine
- Increased fuel consumption
- Increased stack temperature
- Debris particulates exiting the stack

### **CLEANING RESULTS:** Benefits to the Plant

#### **GT Back Pressure**

	Before	After	Change
GT	19"	16"	-3 "

### Output

Before	After	Change
n/a	n/a	+ 1.5 MW

#### **Stack Temperature**

Before	After	Change
422 F (216 C)	414 F (212 C)	- 8 F (4 C)